

Mirage

A Dashboard for All Cinema Content



IT5007 PROJECT REPORT

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Contents

1. Problem Statement and Benefits of Our Solution	2
a. Relevance of this problem in 5-10 years	4
b. Motivation behind why we chose to develop this app	4
2. Legal/Other Aspects	5
3. Competitor Analysis	7
a. Comparative study with our immediate competitors	8
4. Project Schedule	9
5. List of Features of Our Web App	9
a. Novel Features	9
6. Screenshots of the Application	11
a. Pages on the website and their functionality	11
b. Adding a review	16
c. Cast information	17
7. Information Data Flow of the Implemented System	19
8. Future Scope	
9. Appendix	21

IT5007 Project Report

Problem Statement and Benefits of Our Solution

The proliferation of online streaming services has made it easier than ever to access movies from the comfort of our homes. However, with so many options available, it can be challenging to keep track of which movies we want to watch, what we have already seen, and which ones we might enjoy based on our preferences. This is where a movie dashboard web app can come in handy.

The problem that our movie dashboard web app aims to solve is the lack of a centralized platform for movie enthusiasts to manage their movie-watching experience or to look for what to watch based on genre and language. Currently, many people rely on multiple sources such as social media, word of mouth, and various streaming platforms to discover and keep track of movies they want to watch. This can lead to a fragmented experience, with many users struggling to find the movies they are interested in and missing out on potential new favourites.

Our movie dashboard web app seeks to address this problem by providing a one-stop-shop for movie lovers to discover, track, review and rate movies online. The web app will allow users to search for movies based on the title of the movie. Users can also write reviews on the pages of these movies to help other movie buffs to know more about the kind of movie or whether it's worth a watch. Additionally, the app will feature a social aspect, where users can share their thoughts on movies, and participate in discussions on the page of the movie.

The movie dashboard web app will offer a user-friendly and intuitive interface, with easy navigation and powerful search capabilities. Users will be able search for movies of different genres, which may not be available on traditional TV channels or local movie theatres. Furthermore, the app is free to use and one that will allow users to search for unlimited movies without any cost. Currently, similar websites always ask for a nominal rate, whereas our web app allows people to look for movies without any limit on the searches. In our app, the users only have to create an account for themselves to be able to post comments and reviews, after which they are free to use all features of the app.

Overall, the movie dashboard web app aims to provide a comprehensive and convenient solution for movie enthusiasts to manage their movie-watching experience. By bringing together all aspects to the movie search, the app seeks to provide a more enjoyable and fulfilling experience for its users.

An online movie dashboard can be a useful tool for movie enthusiasts. Here are some of its potential benefits:

Convenience: With an online movie dashboard, you can browse and discover movies from the comfort of your own home or wherever you have an internet connection. You don't have to visit a physical store or wait for a TV channel to air your favourite movie.

Personalization: This web app has movies across a variety of genres. This can help you discover new movies that you might not have otherwise known about. Also, you can provide your own, authentic feedback of movies as and when you wish to.

Accessibility: Online movie dashboards make it easier to access movies from different regions and in different languages. You can watch movies from around the world that may not be available in your local movie theatre or on traditional TV channels.

Cost-effective: Online movie dashboards often offer a subscription-based model, allowing you to browse movies and review them for a fixed monthly fee. This can be more cost-effective than buying or renting individual movies.

Social Connection: An online movie dashboard can also allow for social interaction by connecting with other movie enthusiasts. You can share your thoughts on movies, create and join movie clubs, and participate in online discussions. This can enhance your movie watching experience and make it more enjoyable.

The React web app we are building is designed to provide movie lovers with a one-stop platform to explore and review movies. The app fetches movie data from a specified API and displays them on the front page of the web app. Users can browse through the movies and click on any movie to read more about it. The app also has a search bar that allows users to filter movies based on various criteria such as genre, actor, and director.

To enhance the user experience, we have included a user account feature. This feature allows users to create an account on the website and log in to save their favourite movies, as well as leave reviews for movies they have watched. Reviews are posted below the movie page and can be viewed by other users, creating a platform for people to share their opinions and engage in discussions about movies.

Additionally, we have a dedicated page for vintage movies. The app fetches this data from our database (MongoDB) rather than an API. This allows us to provide users with a unique selection of movies that may not be available on other platforms.

Users can browse through the vintage movies and read more about them before deciding to watch them.

Overall, our React web app provides movie enthusiasts with a convenient and comprehensive platform to explore and review movies. With a user-friendly interface, advanced search capabilities, and a social aspect, the app offers a seamless experience for users to discover and review their favourite movies.

Relevance of the Problem in 5-10 years:

With the advent of content in the areas of cinema and the advent of OTT platforms, the demand for researching and watching movies and content is only going to increase, most probably at an exponential rate and beyond a scale that we can presume at present. Due to this, our product is only going to increase in demand of its usage and application with time. Also, in the future, we can integrate our web app with other movie-streaming platforms such as Amazon Prime and Netflix so that people looking for content to watch will receive suggestions based on the most relevant and latest content on these websites and similar websites. This way, people looking for a similar type of content will have more options to choose from and explore beyond boundaries such as region, language and genres. Through an app like ours, we believe it has the impact to give niche and non-commercial content to feature and seek a fan-following since this app can have options of not compromising quality over commerciality.

Motivation behind why we chose to develop this app:

The fastest and easiest way people get influenced in this day and age is through visual content and multimedia which includes movies. While we may have zillions of platforms that have and create content, we are most often than not unsure of what to watch and what to expect of a certain film. This app comes to rescue in these times where the users are in a dilemma of what they can watch and whether they should spend their time on a certain movie, based on their personal likes and interests. With the rampant, exponential growth at which movies are being produced and distributed, we believe the relevance and demand for an app of this kind will only be greater as the years pass. According to a [study published](#) by the New York Post in 2019, an average person spends 78,000 hours watching television/cinema-related content. This is what pushed us to think in this direction of building this app with the respective features in mind.

Legal/Other Aspects

As with any software development project, there are several legal aspects that need to be considered when developing our movie review app. These include:

1. Copyright and intellectual property: When using an API or database to fetch movie data, it is important to ensure that we have the proper licensing and permissions to use that data. It is also important to ensure that any content, images, or other materials used in the app are properly licensed and attributed to the original owners.
2. Privacy and data protection: Our app collects and stores user data, including personal information such as email addresses and passwords. It is essential to comply with data protection laws and regulations, such as the Personal Data Protection Act (PDPA) and the International Data Privacy Law (IDPL), to ensure that user data is protected and used only for its intended purpose.
3. User-generated content: As our app allows users to post reviews, we need to be aware of potential legal issues that may arise, such as defamation or copyright infringement. It is important to have clear terms and conditions in place that outline acceptable use of the app and the consequences of violating those terms.
4. Liability and indemnification: In the event of any legal action or claims against our app, it is important to have clear agreements in place with our team, partners, and vendors regarding liability and indemnification. This will help protect our app and ensure that any legal issues are dealt with appropriately.
5. Accessibility: We also need to ensure that our app is accessible to users with disabilities, in compliance with the Article 12 of the Constitution of the Republic of Singapore states that “all persons are equal before the law and entitled to the equal protection of the law”, and other similar accessibility laws and regulations.

By addressing these legal aspects of our app development, we can ensure that our app is compliant with relevant laws and regulations, and that our users are protected while using our platform.

Trademark and Copyrights:

As the development of our movie review app progresses, it is important to consider trademark and copyright protection to safeguard our intellectual property. This protection is essential to prevent unauthorized use of our app and to establish legal ownership of our brand, logo, and source code.

Trademark protection covers our app's name, logo, and brand identity. This ensures that our brand cannot be used by others in the same or similar context without our permission. Therefore, we need to conduct a thorough search to ensure that the name and logo we have chosen for our app are not already trademarked. If the search reveals that the name and logo are available, we can apply for a trademark to protect our brand.

Copyright protection covers the source code and design elements of our app. This ensures that the code and design elements cannot be used, copied, or distributed without our permission. To protect our source code, we need to keep it confidential and ensure that it is not made open source. Additionally, we should have non-disclosure agreements (NDAs) in place with any third-party developers, contractors, or vendors who may have access to our source code.

In summary, trademark and copyright protection are essential for safeguarding our app's intellectual property. We need to ensure that our logo and brand are properly trademarked and that our source code is protected from unauthorized use and distribution. By taking these steps, we can establish legal ownership of our app and prevent others from infringing on our intellectual property rights.

Competitor Analysis

Our movie review app offers several features and benefits that set it apart from competitors such as IMDb¹, Letterboxd², JustWatch³, and Rotten Tomatoes⁴. Here are some of the reasons why our app is better:

Comprehensive movie database: Our app fetches data from a certain API, and also has a separate page that has all vintage movies that fetches data from our database (MongoDB). This means that we have a comprehensive, handpicked database of movies, from the vintage era of films.

User reviews and ratings: Our app allows users to post reviews and ratings of movies, providing valuable insights into the quality of a movie from real users. This feature is not available on all our competitors' apps.

Login Feature for Posting Reviews: Our app allows users to create an account and track their favourite movies and reviews. In the future scope of the development of our web app, based on this information, we aspire to redesign our app to provide customized movie recommendations to users, which is not available on all our competitors' apps.

User-friendly interface: Our app has a user-friendly interface that is easy to navigate, making it easy for users to find the information they are looking for quickly and easily. This sets us apart from competitors who are likely to have more complicated interfaces that are not necessary. Unnecessary complications can put off users. Thus, our UI has a better understanding of user requirements and is designed keeping those factors in mind.

Privacy and data protection: We take privacy and data protection seriously and ensure that user data is stored securely and used only for its intended purpose. This sets us apart from some of our competitors who may not have the same level of focus on data protection.

No ads: Our app is completely ad-free, providing users with a seamless and uninterrupted experience. This sets us apart from some of our competitors who have intrusive ads that interrupt the user experience or distracts the users in their process of searching for relevant data.

¹ <https://www.imdb.com/>

² <https://letterboxd.com/>

³ <https://www.justwatch.com/>

⁴ <https://www.rottentomatoes.com/>

Community engagement: Our app fosters community engagement by allowing users to post reviews, and also view authentic reviews of other people. This helps to build a community of movie enthusiasts and sets us apart from competitors who may not have the same level of community engagement.

Overall, our movie review app offers a comprehensive movie database, user reviews and ratings, a user-friendly interface, privacy and data protection, no ads, and community engagement. These features and benefits set us apart from our competitors and make our app a better choice for movie enthusiasts.

Comparative Study with Our Immediate Competitors:

Competitor's Feature	How Our Feature is Better
<u>IMDb</u> : IMDb shows movies based on genres and regions. It also has features of ratings and reviews but does not have a database for Vintage collection.	Our web app, Mirage has a separate page for Vintage movies which is not a feature that is included by IMDb or any of the other competitors.
<u>Letterboxd</u> : Ads on every click and extensive ads on every page, almost misleading between as to which are the ads, and which are the movies that are displayed after every search.	Mirage does not show any ads, it is completely ad-free, thereby eliminating any sort of distraction on the users' side, providing a seamless experience.
<u>JustWatch</u> : JustWatch may seem to have all that one looks for in a movie dashboard, but what is most lacking is the option for posting as well reading reviews. JustWatch only displays ratings of movies, i.e., out of 5 stars.	Mirage on the other hand has the option of reviews as well as search for movies. Through Mirage, users can post their own reviews as well as read other users' reviews.
<u>Rotten Tomatoes</u> : Rotten Tomatoes might seem like a perfect solution to a movie dashboard, but there is a drawback – the problem is that it turns film reviews into an unnatural binary choice – either "fresh" or "rotten" – and that is not quite how reviewing works.	In the case of Mirage, we have authentic reviews written and posted by movie-goers and gives you many more (convincing) reasons for why a movie might be a great watch or otherwise. Our reviewing is justified and reliable.

Table 1: Comparative Study with other Contemporaries

Project Schedule

Task	Jan	Feb	Mar	Apr
Deciding the Theme of the Project				
Research		■	■	■
Developing the Application		■	■	■
Prototyping and Design				■
Formulation of Features				■
Implementation of Features				■
App Development (Back-end)				■
App Development (Front-end)				■
Iteration of the Completed App and checking for enhancements				■
Making changes in the code for Better Enhancements				■
Final Project Report				■
Final Completion of the Application				■

Table 2: Project Schedule and Work Done During Each Week

List of Features of Our Web App – Mirage

User Needs	Feature Incorporated and Implemented	Checked
One-stop destination for all movies	Our Mirage web app is a dashboard containing all movies resourced/fetched from the TMDb API (for the MovieBox) and MongoDB for the Vintage page.	<input checked="" type="checkbox"/>
Login/Create Account	To enable users to view content, track their respective movie search and reviews posted, there is a login feature that has been implemented.	<input checked="" type="checkbox"/>
Reviews/Feedback	Mirage allows users with accounts to post reviews and view others' reviews.	<input checked="" type="checkbox"/>
Search Movies	The app has a search feature that shows results based on the keywords of movie titles.	<input checked="" type="checkbox"/>
View Movies	View the movies dynamically based on the search keyword.	<input checked="" type="checkbox"/>
Movie Details	The movie details are displayed when the user clicks on a selected movie. On the same page, there are details about the cast, whose links are further clickable and redirects to information about the cast/actor.	<input checked="" type="checkbox"/>

Table 3: Features implemented with respect to associated user needs.

Novel Feature:

We have used 3rd party APIs such as the TMDb API and the IMDb API. We have integrated the MovieBox page and well as the Search feature with the TMDb API to fetch data with respect to real-time data as and when new movies are released.

The app has a special page for vintage movies. This page has specific movies that are handpicked from the 'Vintage era'. The movies and the respective details of each of these movies is stored in the MongoDB and **not** fetched from any API. This enables us to make updates of movies (adding/editing) based on our convenience and we have control over what are the most niche and must-watch vintage movies to suggest to the users. This also allows users to explore a whole new taste of cinema, beyond the barriers of region, language and genre. Users are also allowed to review these movies and post their thoughts as reviews at the end of the respective movie's page.

The benefit of this feature is to help people who are clueless about movies of the past to get a taste of them and also understand the social, political and social scenarios of the past through these movies and better appreciate them, while also being appreciative of the present and the advancements in all fields over the years. It is also implemented with a purpose of broadening the worldview of people and movie-buffs.

Creation of Data in the MongoDB:

For data in the MongoDB, we are populating the data from the IMDb API of Top 100 greatest vintage movies of all time and stored it in our local MongoDB database. This data is shown on the Vintage page of our React app. The data is static and if we need to edit data to add or remove the Vintage movies, we can repopulate database using the IMDb API again. This is a novel feature since this can withstand any crashes in the local database. We can repopulate the data using the original IMDb API in case of crashes. For the Vintage page, our app fetches data from the MongoDB and displays it on the webpage.

Screenshots of the Application

The first page that you see when you start the React app is the login page. Only if users login will they be able to view the movies and subsequent data about each movie – such as cast, movie synopsis, adding and viewing reviews and trailers. The login page is as shown below:

Pages on the Website and their functionality:



Fig 1: Login Page (First page that you see when you open the app)



Fig 2: Creating new user and logging in. Details added: Username and Password

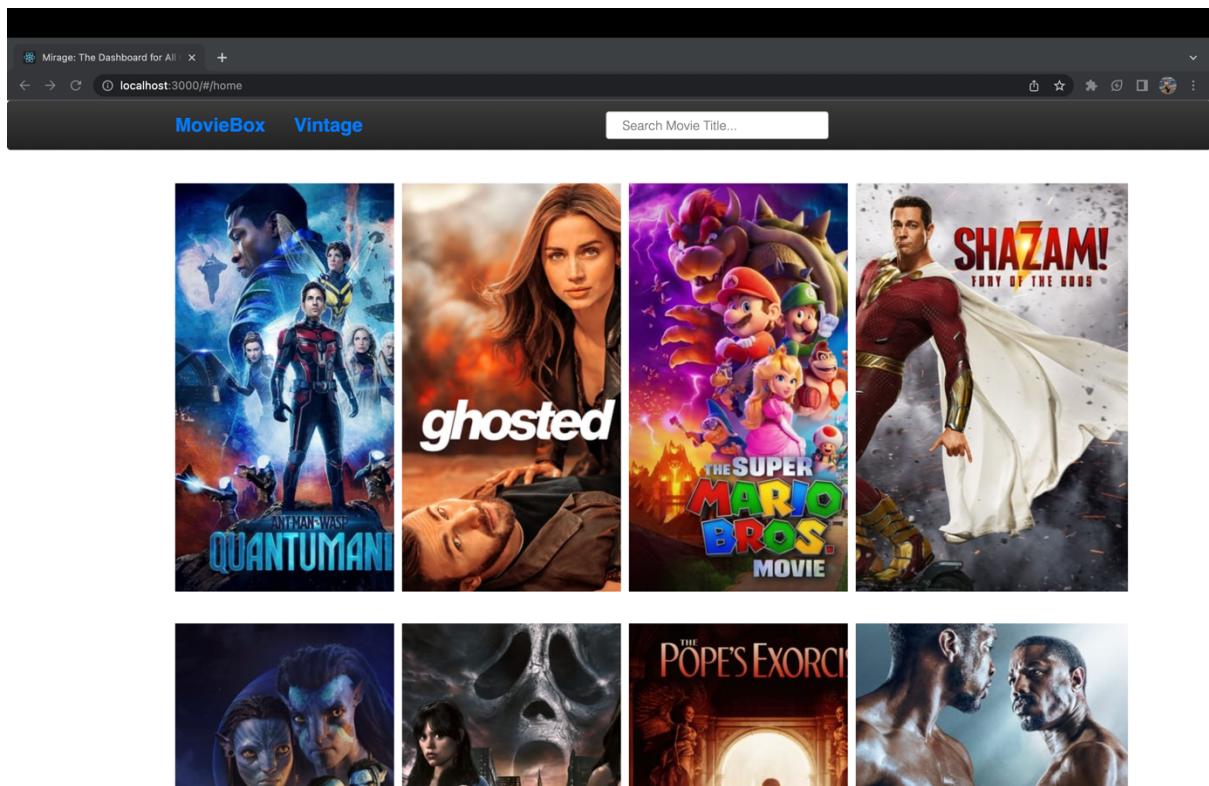


Fig 3: Once you login, the above page is what you see. It is the **MovieBox** page. This page shows the Top 20 latest Hollywood releases.

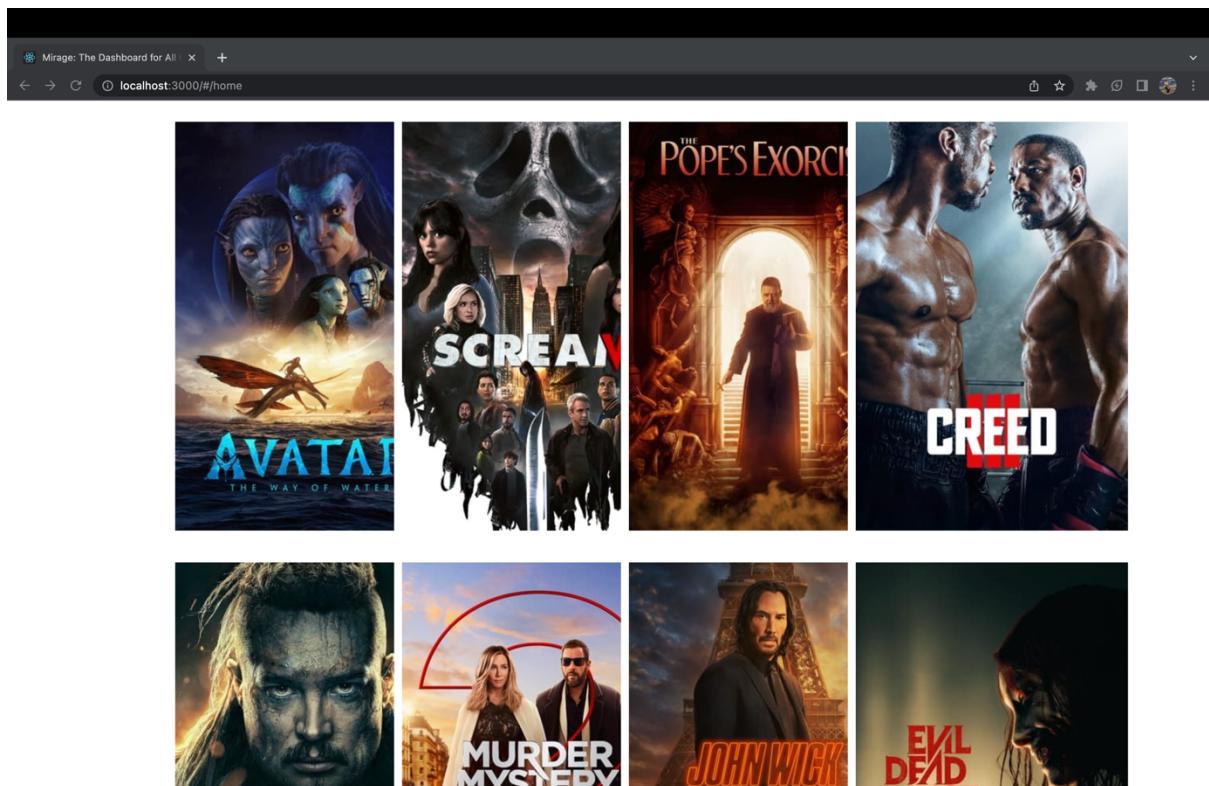


Fig 4: This is what you see as you scroll down the page.

John Wick: Chapter 4

With the price on his head ever increasing, John Wick uncovers a path to defeating The High Table. But before he can earn his freedom, Wick must face off against a new enemy with powerful alliances across the globe and forces that turn old friends into foes.

Casts

Keanu Reeves	Donnie Yen	Bill Skarsgård	Ian McShane
Laurence Fishburne	Laurence Fishburne		

Add Review:

Add

Reviews:

Trailers

Fig 5: If you click on the movie of your choice, this is what you see. A short description of the movie, the information about the cast as well as an option to add review. The links to the movie trailers are also available on the same page.

MovieBox **Vintage**

Search Movie Title...

Fig 6: There is a separate “Vintage” page as shown (next to the MovieBox icon). When you click on the “Vintage” icon, you see what is shown as above. There are the Top 100 Vintage movies of all time on this page. All data on this page is retrieved from the MongoDB and not in real-time from any APIs.

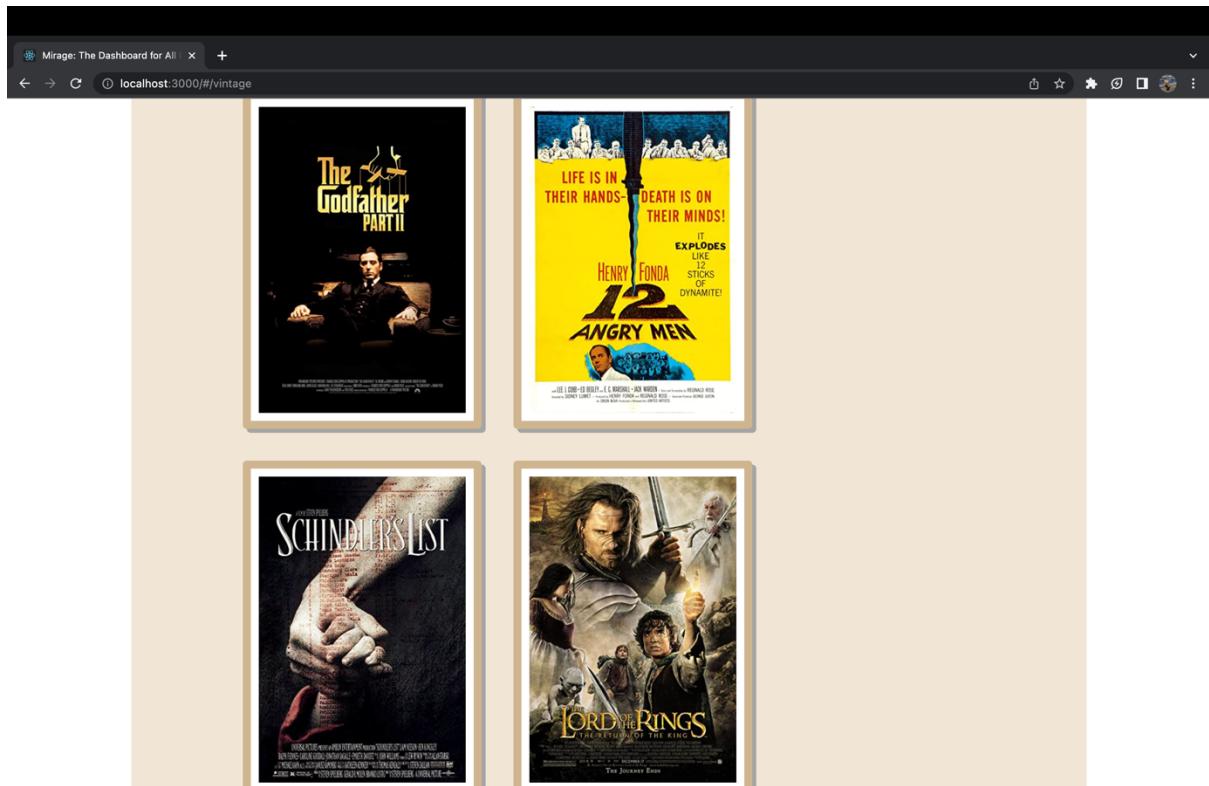


Fig 7: Further scrolling down the Vintage page, you see what is shown above.

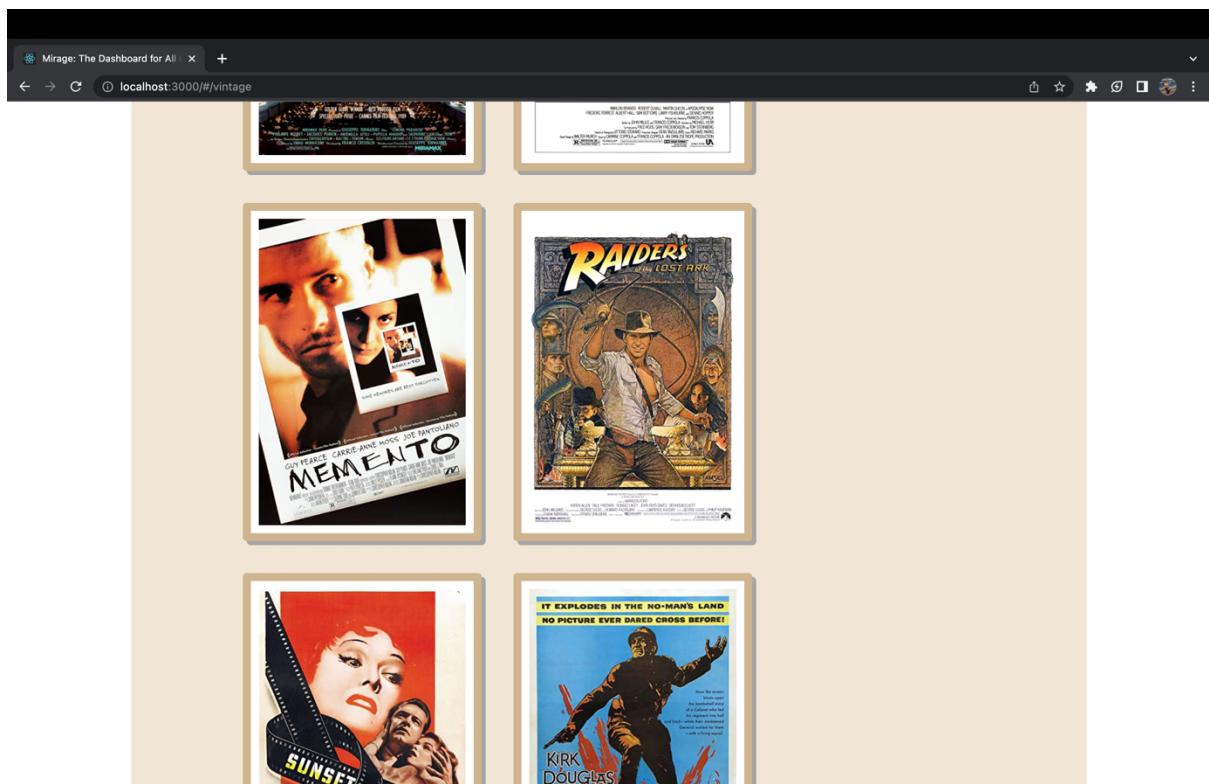


Fig 8: Suppose I want to know more about any movie on the Vintage page, I can click on the respective movie (in the above case, Indiana Jones) and it redirects to the following page which opens in a new tab:

Hi tihor MovieBox Vintage Search Movie Title... ↗

[Back](#)

The Lord of the Rings: The Fellowship of the Ring
A meek Hobbit from the Shire and eight companions set out on a journey to destroy the powerful One Ring and save Middle-earth from the Dark Lord Sauron.

Directors
Peter Jackson

Writers

J.R.R. Tolkien (novel "The Fellowship of the Ring")	Fran Walsh (screenplay)	Philippa Boyens (screenplay)
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Trailers

Add Review:
 Add

Reviews:
lor
Reviewed by

Fig 9: Information about the movie “Lord of the Rings”. As you see, there is the official poster of the movie, a one-line synopsis of the movie as well as the trailer link of the movie. The trailer plays in the i-frame, without needing to be redirected to a separate page.

Hi tihor MovieBox Vintage Search Movie Title... ↗

[Back](#)

The Lord of the Rings: The Return of the King
Gandalf and Aragorn lead the World of Men against Sauron's army to draw his gaze from Frodo and Sam as they approach Mount Doom with the One Ring.

Directors
Peter Jackson

Writers

J.R.R. Tolkien (novel "The Return of the King")	Fran Walsh (screenplay)	Philippa Boyens (screenplay)
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Trailers

Add Review:
 Add

Reviews:
review about lord
Reviewed by

Fig 10: Similarly for another movie of the same franchise, the page looks as shown above, when the user clicks on the movie on the Vintage page. The trailer is also clickable and as you click, it begins playing on the same page, thereby not requiring you to be redirected to another page.

Adding a review:

The screenshot shows a movie review page for "John Wick: Chapter 4". At the top, there is a large poster of the movie. Below the poster, the title "John Wick: Chapter 4" is displayed. To the right of the title, there is a brief plot summary: "With the price on his head ever increasing, John Wick uncovers a path to defeating The High Table. But before he can earn his freedom, Wick must face off against a new enemy with powerful alliances across the globe and forces that turn old friends into foes." Below the plot summary, there is a section titled "Casts" which lists the main cast members with their names and profile pictures. There is also a "Reviews" section where a user has added a review: "This is a great movie, and is a must-watch for the Keanu Reeves fans! He never disappoints!" A red "Add" button is visible next to the review input field.

Fig 11: The user can add a review as shown above. And on clicking “Add”, your review gets posted, as shown below:

The screenshot shows the same movie review page after a review has been added. A black notification box appears at the top with the text "localhost:3000 says" and "Review added successfully". Below the notification, the review is visible in the "Reviews" section. A blue "OK" button is present in the notification box. The rest of the page content, including the movie poster, cast list, and other sections like Trailers and Add Review, remains the same.

Fig 12: There is a notification that notifies you of the addition of the new review and on clicking “OK”, you see your review being posted, as shown below:

John Wick: Chapter 4

With the price on his head ever increasing, John Wick uncovers a path to defeating The High Table. But before he can earn his freedom, Wick must face off against a new enemy with powerful alliances across the globe and forces that turn old friends into foes.

Casts	
Keanu Reeves	Donnie Yen
Bill Skarsgård	Ian McShane
Laurence Fishburne	
Donnie Yen	Ian McShane
Laurence Fishburne	

Add Review:

Write a review

Reviews:

This is a great movie, and is a must-watch for the Keanu Reeves fans! He never disappoints!

Posted by

Trailers

Fig 13: Review added successfully and people accessing the page will be able to see your review.

Cast Information:

KEANU REEVES

Male Birthday 1964-09-02

Biography

Keanu Charles Reeves is a Canadian actor. Reeves is known for his roles in *Bill & Ted's Excellent Adventure*, *Speed*, *Point Break*, and *The Matrix* franchise as Neo. He has collaborated with major directors such as Stephen Frears (in the 1988 period drama *Dangerous Liaisons*); Gus Van Sant (in the 1991 independent film *My Own Private Idaho*); and Bernardo Bertolucci (in the 1993 film *Little Buddha*). Referring to his 1991 film releases, *The New York Times* critic, Janet Maslin, praised Reeves' versatility, saying that he "displays considerable discipline and range. He moves easily between the buttoned-down demeanor that suits a police procedural story and the loose-jointed manner of his comic roles." A repeated theme in roles he has portrayed is that of saving the world, including the characters of Ted Logan, Buddha, Neo, Johnny Mnemonic, John Constantine and Klaatu.

Known For

Fig 14: View cast details: Once you click on the name of the actor as shown within the “Casts” section, you will be redirected to the page with the information of that actor (In this case Keanu Reeves). The page shows information about the actor as well as suggests the movies the actor has starred in. You can further click on those movies, and you will be redirected to the page with information about the movie you clicked on. (See below)

The screenshot shows a web browser window titled "Mirage: The Dashboard for All" with the URL "localhost:3000/#/movie/458156". The page displays information for the movie "John Wick: Chapter 3 - Parabellum". At the top, there are navigation tabs for "MovieBox" and "Vintage", and a search bar. Below the title is a large image of the movie poster, which features Keanu Reeves as John Wick walking through a city at sunset.

John Wick: Chapter 3 - Parabellum

Super-assassin John Wick returns with a \$14 million price tag on his head and an army of bounty-hunting killers on his trail. After killing a member of the shadowy international assassin's guild, the High Table, John Wick is excommunicado, but the world's most ruthless hit men and women await his every turn.

Casts

Keanu Reeves	Halle Berry	Ian McShane	Laurence Fishburne	Mark Dacascos
Keanu Reeves	Halle Berry	Ian McShane	Laurence Fishburne	Mark Dacascos

Add Review:

Reviews:

Trailers

[John Wick: Chapter 3 - Parabellum Official Clip](#)

[John Wick: Chapter 3 - Parabellum ...](#)

Fig 15: As the user clicked on John Wick: Chapter 3 – Parabellum on the previous page, the user is now redirected to view the information about the movie on a new page.

Information Data Flow of the Implemented System

In the following section below, we enunciate upon the information generated and the flow of transition through the implemented features.

User Data Creation and Login Authentication:

To access the homepage of the web application, the user needs to create and account with two parameters: Username and Password. On creating a new account, the user can login using the respective details. This will redirect them to the homepage of the web application – which is the MovieBox. This page contains the Top 20 Hollywood movies with respect to latest date of release.

View and Search Features:

Once the user is logged in, they can see the top 20 Hollywood releases. They can also search for their respective choice of movie, using the name of the movie. The outcome(s) of the searched keyword is shown without delay, dynamically. From the shown movie results, the user can select their choice of movie which will redirect them to the page containing the information about the respective movie that they have chosen.

Page Contents of the Selected Movie:

Once you select the movie, you will be able to view information such as: a short synopsis of the movie, cast details and the trailer links of the movie. A novel feature of adding/viewing reviews is also displayed on the page of the movie. This will allow you to add as well as view others' reviews that have been posted. All reviews are stored and fetched from the MongoDB.

Separate page for Vintage Collection of Movies:

The icon that reads "Vintage" will ensure that you are redirected to the page that has top 100 vintage movies. Similar to the MovieBox page, when you click on the movies in the Vintage page, you are redirected to the information page of the respective movie. This page, like the MovieBox page displays information such as: a short synopsis of the movie, cast details and the trailer links of the movie. A novel feature of adding/viewing reviews is also displayed on the page of the movie. This will allow you to add as well as view others' reviews that have been posted. All reviews are stored and fetched from the MongoDB.

Logout Feature:

There is a logout button on the top-right corner of the page which allows you to safely logout once you decide to exit the application, after the intended use.

Future Scope:

We plan to extend the scope of this project in the future by including the following features:

1. Writer's Blog: Add extra pages where novice filmmakers and aspiring writers can post their stories and works and gain wider reception from readers/movie enthusiasts and well-established filmmakers and directors. These amateur writers can get a chance in movies or get their stories to a greater and wider platform through this feature.
2. Booking Feature: Add a feature where users can directly book cinema tickets through the website based on their choice of movies that are running in theatres. Also, we can integrate our app with third-party apps such as Amazon Prime, Netflix, Zee5, etc to watch content by these applications.
3. Pro Version: We can include an advanced or pro version of the application where certain people can enjoy more benefits of accessing movies as well as receiving updates of new movies and being able to view exclusive content.
4. Monetary Benefits: If in case we are able to generate sufficient revenue from the pro version, we can also include certain incentives for people who are regular in writing blogs as well as movie reviews based on the number of engagements of their reviews/blogs.

These are some of the future works that can be incorporated in this application and help users as well as career-seekers.

Appendix:

The complete code of our project has been committed to the GitHub repository. The link to our project's GitHub repository is:

<https://github.com/IT5007-2220/course-project-the-epic-dashboard>

All features mentioned in this report have been successfully implemented as well as tested through various rounds of iterations.

We want to take this opportunity to acknowledge our Prof, Dr. Prasanna Karthik Vairam for giving us this opportunity of working on this project as well as guiding us throughout the course. We have not only gained the necessary skills but have also been able to work in a team and resolve conflicts without ambiguity. This experience has been a rewarding one!

-----XXX-----